

## PROJECT 10073 RECORD CARD

1. DATE 15 April 1963	2. LOCATION 24,43 166,23W (Pacific)	12. CONCLUSIONS	
3. DATE-TIME GROUP Local _____ GMT 16/0630Z	4. TYPE OF OBSERVATION <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar	<input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon  <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft  <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical  <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown	
5. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. SOURCE Civilian	11. COMMENTS	
7. LENGTH OF OBSERVATION not reported	8. NUMBER OF OBJECTS one	9. COURSE east	
10. BRIEF SUMMARY OF SIGHTING MERINT report of glowing object moving East very fast. No identification. Resembled a bright star. Estimated altitude 20,000 ft.			

ATIC FORM 329 (REV 26 SEP 52)

DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
UNCLASSIFIED MESSAGE

I N C O M I N G

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INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35, DIA-20  
DIA/CIIC-2, OSD-15, NSA-7, CIA-11 -118-

SMB C150

01

ZCZCPH0082V

\*\*\*\*\* YY RUEAHQ

ZFD RUHPH

PHC A071

\*\*\*\*\* YY RUEAHQ RUECW

DE RUHPHC 018S

ZNR

Y 161010Z

BH

UNCLAS SVC

ZUI RUEK 09S/ZII2 16/0951Z. (NOTAL) ZDK RUHPHC 031/160903Z

Y 160903Z

FM COMHAWSEAFRON

AT 16/0630Z

0557 290.02  
285 82.7C  
615C

TO RUUAAH/COMD HADD KUNIA

ECHO

217

INFO RUHPB/CINCPACFLT

RUWGALB/CINC NORAD ENT AFB, COLO

RUEAHQ/COFSUSAFC WASHDC

RUECW/CNO

RUECW/SECNAV

RUHAFS/CINCUSARPAC

RUHPA/CINCPAC

RUHLKSA/PACAF BASE COM, HICKAM AFB

NAVY GRNC

47N°  
217°W at 0625

RSAT IN PARK

DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
UNCLASSIFIED MESSAGE

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**INCOMING**

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BT

UNCLAS

MERINT

FOLLOWING REQM FM USNS COSSATOT/TAO 77, QUOTE: MERINT USNS COSSATOT  
TAO 77. LAT 24-43N LONG 166-23W 160630Z. SIGHTED GLOWING OBJECT  
ALTITUDE 20 DEG COURSE EAST VERY FAST. NO IDENTIFICATION RESEMBLE  
BRIGHT STAR UNQUOTE

BT

16/0904Z

BH

16/1010Z

NOTE: ADVANCE COPY TO DIA, NIN & XOPX.

DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
UNCLASSIFIED MESSAGE

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INFO: NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35,  
DIA-20, DIA/CIIC-2, OSD-15, NSA-7, CIA-11

(118)

01

SMB A 166

WWYZCQJA104

OO RUEAHQ

ZNR ZFH1

SU198ZCKSA003

OC RUHLKM RUHPQ RUEAHQ RUECW RUWGALB RUHPA RUTAFS RUHPB RUUAUZ

DE RUHLKH 5

ZNR

O 160900Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPQ/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO: RUEAHQ/CSAD USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNORAD ENT AFB COLO

DEPARTMENT OF THE AIR FORCE  
STAFF MESSAGE BRANCH  
UNCLASSIFIED MESSAGE

INCOMING

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RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHADTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAZ/COMUSJAPAN FUCHU AS JAPAN/

RUAMCR/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBR/CINCSAC OFFUTT AFB NEBR

BT

UNCLAS/HADOC-D 0710

CURVIS/USNS COSSATOT TA 77 REPORTS POSITION 24 DEGREES 43 MIN NORTH  
166 DEGCEES 22 MIN 2. AT 160630. SIGHTED GLOWING OBJECT 20 DEGREES ABOVE  
HORIZON, TRAVELING TO THE EAST VERY FAST. RESEMBLED  
BRIGHT STAR. NO EVALUATION.

BT

16/0910Z APR RUHLKH

NOTE: ADVANCE COPY TO: XOPX, NIN & DIA

APRIL 14, 1963

## SATELLITE 1960 IOTA 1, SNOO 1

These predictions are based on orbital elements revised on April 3, 1963  
 $T_0 = \text{April } 9.0$ , times are in days, U.T.  
 Argument of perigee =  $62^\circ 66' + 5^\circ 66' (\text{L-T})$   
 Right ascension of ascending node =  $26^\circ 61' - 17^\circ 94' (\text{L-T})$   
 Expected average magnitude = +1

Inclination =  $47^\circ 20' 50''$   
 Eccentricity =  $0.00725 + 4.42 \times 10^{-4} (\text{L-T})$   
 Semi-major axis = 7,857,851 megameters  
 Mean anomaly (Rev.) =  $0.3250 + 12.46238 (\text{L-T}) + 1.158 \times 10^{-4} (\text{L-T})^2$

SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES												SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES												
EQUATOR				SOUTH-NORTH				NORTH-SOUTH				EQUATOR				SOUTH-NORTH				NORTH-SOUTH				
S-T	TIME	LONG.	LAT.	TIME	LONG.	HGT.	BEAM.	TIME	LONG.	HGT.	BEAM.	S-T	TIME	LONG.	HGT.	BEAM.	TIME	LONG.	HGT.	BEAM.	TIME	LONG.	HGT.	BEAM.
(UT)	(hr)	(deg)	(min)	(UT)	(deg)	(km)	(deg)	(UT)	(deg)	(km)	(deg)	(UT)	(hr)	(deg)	(km)	(deg)	(UT)	(deg)	(km)	(deg)	(UT)	(deg)	(km)	(deg)
APRIL 13, 1963																								
1 21.1	202.47	47.4	28.5	-82.77	880	90.0*	28.5	-82.81	880	90.0*	1 11.4	221.89	47.4	28.6	-82.74	873	90.0*	28.6	-82.78	873	90.0*			
2 51.7	251.06	45.0	23.4	-60.95	880	72.5*	33.6	-104.63	882	107.5*	3 1.7	251.06	45.0	23.5	-60.92	880	72.5	33.7	-115.51	870	107.5*			
3 51.5	267.05	40.0	19.3	-45.62	882	61.8	17.7	-111.95	885	119.2*	5 4.8	267.05	40.0	19.4	-55.59	887	61.8	37.8	-119.74	870	119.2*			
4 49.5	240.04	35.0	16.3	-37.97	885	55.1	40.8	-129.60	889	125.1*	7 5.2	240.04	45.0	16.6	-35.94	893	55.1	40.8	-135.90	871	125.1*			
5 41.7	319.23	30.0	13.6	-28.62	888	49.5	53.4	-132.84	893	130.5	9 3.2	319.23	30.0	13.7	-27.60	899	49.5	53.5	-136.93	873	130.5			
10 39.1	350.42	20.0	8.9	-17.32	896	41.7	48.2	-148.24	902	136.3	10 48.5	39.1	20.0	8.9	-11.30	911	43.7	48.2	-151.75	880	136.3			
12 34.5	17.81	0.	0.	0.	915	19.9	57.1	-165.56	927	140.1	12 43.5	37.01	0.	0.	0.	936	39.9	57.0	-165.59	901	140.1			
14 29.9	46.80	-20.0	-8.9	17.29	935	43.7	-49.6	147.91	945	130.3	15 39.3	66.20	-20.0	-9.0	17.27	960	43.7	-49.7	147.87	929	130.3			
16 25.1	75.59	-30.0	-13.6	28.58	951	49.4*	-44.7	136.63	958	136.0	16 24.7	95.39	-30.0	-13.9	28.55	970	49.4*	-44.8	136.59	945	136.0			
18 20.2	105.17	-35.0	-18.5	35.90	973	54.0*	-31.9	129.51	982	120.0	18 30.1	124.58	-35.0	-16.7	35.87	975	54.0*	-32.1	129.26	953	120.0			
20 16.1	135.37	-41.0	-23.7	45.53	983	58.8*	-32.8	115.69	977	119.1	20 25.5	151.76	-40.0	-19.1	45.48	979	58.8*	-39.0	117.64	961	119.1			
22 11.5	165.55	-45.0	-21.5	51.82	985	62.5*	-34.5	107.80	971	107.8	22 20.8	167.95	-45.0	-24.1	61.77	981	62.5*	-44.7	106.35	971	107.8			
		-47.4	-29.2	82.59	973	66.0*	-29.2	92.63	973	100.0		-47.4	-29.4	82.54	975	66.0*	-29.4	92.58	975	100.0				
APRIL 14, 1963																								
0 6.8	192.74	47.4	26.5	-82.76	877	90.0*	26.5	-82.81	877	90.0*	0 16.2	212.18	47.4	28.7	-82.73	873	90.0*	28.7	-82.77	873	90.0*			
2 7.2	241.93	45.0	23.4	-60.94	879	72.5*	33.6	-104.61	879	107.5*	2 11.8	281.38	45.0	23.6	-60.91	881	72.5	33.7	-104.60	878	107.5*			
3 51.8	251.12	40.0	19.3	-45.61	882	61.9	37.7	-111.95	883	119.2*	4 7.0	251.51	40.0	19.5	-55.58	886	60.8	37.8	-119.93	867	119.2*			
5 51.0	280.74	35.0	16.3	-35.96	886	55.1	40.8	-129.60	889	125.1*	7 5.2	280.74	35.0	16.5	-35.93	896	54.1	40.8	-135.90	868	125.1*			
7 42.8	308.50	30.0	13.6	-28.62	890	49.5	53.4	-132.84	890	130.5	9 3.2	308.50	30.0	13.7	-27.60	893	49.5	53.5	-136.93	869	130.5			
9 43.4	338.69	20.0	8.9	-17.31	899	41.7	48.2	-148.25	901	136.3	10 48.5	39.07	20.0	8.9	-11.29	916	43.7	48.2	-151.75	875	136.3			
11 39.2	7.05	0.	0.	0.	920	19.9	57.1	-165.56	917	140.1	11 48.5	27.25	0.	0.	0.	941	39.9	57.0	-165.59	915	140.1			
13 34.6	122.03	-20.0	-8.9	17.29	944	43.7	-49.6	147.91	945	130.3	15 39.3	66.20	-20.0	-9.0	17.27	965	43.7	-49.7	147.87	928	130.3			
15 30.2	251.25	-30.0	-13.6	28.57	956	49.4*	-44.7	136.63	958	136.0	15 39.3	67.03	-30.0	-14.0	28.54	975	49.4*	-44.8	136.59	940	136.0			
17 25.4	57.48	-35.0	-18.5	35.89	962	54.0*	-31.9	129.51	971	120.0	17 24.7	118.81	-35.0	-16.7	35.86	975	54.0*	-32.1	129.26	952	120.0			
19 20.8	124.63	-41.0	-23.7	45.52	967	58.8*	-32.8	115.69	967	119.1	19 30.1	144.00	-40.0	-19.1	45.48	981	58.8*	-39.0	119.63	965	119.1			
21 16.2	151.87	-45.0	-21.5	51.81	973	62.5*	-34.5	107.80	971	107.8	21 27.8	172.18	-45.0	-24.2	60.76	982	62.5*	-44.7	106.35	972	107.8			
		-47.4	-29.3	82.57																				